

- TNTN

C →

D4-1 →

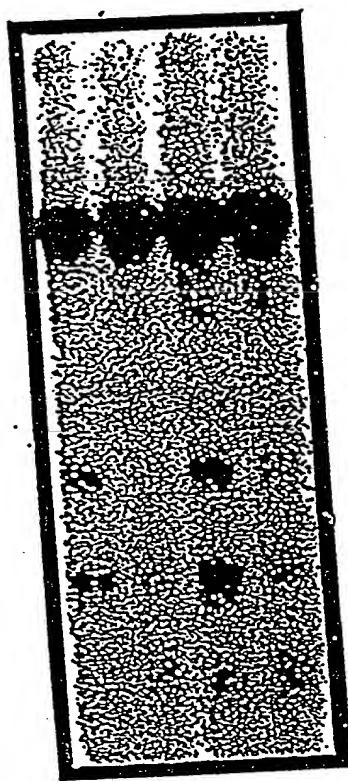


FIGURE 1

1 cttcaaagg tccccatga aaattactta aacgttgcac acaacgttcc gaaaaatctt
61 ttgtggaga agaaaaggaa attcagtgtg tgagtctcag caggagttaa gataatgcag
121 ctttadatgaa Edccgaaaaaa gaagcgtta tctggggca gatgtccctt gattetttc
181 ctgtggcaga tgattagtgc actggaaatgta ccttcttgc caaaacttct tgaagacttg
241 gtacagcctc caaccatcac ccaacagtc cccaaagatt acattattga ccctcgggag
301 aatattgtaa tccagttgtga agccaaaggaa accccccca caagttttc ctggaccctg
361 aatgggactc attttgacat cgataaagac cctctgtca ccatgaagcc tggcacagga
421 acytcataa ttaacatcat gaggcgaaggaa aagctgaga cctatgaagg agtctatcag
481 tgcacgcaaa ggaacgaacg cggagctgca gtttctata acattgttgc ccccccattcc
541 agatcaccat tggggccaa agaaaaactt gaaccaatc cacttcaaaag tggtcgtot
601 ttagtacttc cctgcagacc cccaatttgc ttaccaccc cttataattt tggatggat
661 aatttcttcc aagacttcc accaaagttag aggttttcc aagggttgc tggggacott
721 ttttttccca atgtccccc agaggacac cggagaact atatctgtta tgcgtatgtt
781 aatcatactc aaaccatca goagaagca ccttatttgc tgaagggtat ttcagtgat
841 gaattgtatg acatatacgt tgcatttttgc agtgcacgt agttttatgg tgctaatca
901 agtagagaga ggcaccaac atttttactt ccagaaggca atgcagttaa caaagaggaa
961 ttaagaggaa atgtgtttc actggagtgc attgcagaag gactgcctac cccaaattt
1021 tactggcaaa aggaagatgg aatgttaccc aaaaacaggaa cattttataa gaacttgat
1081 aaaaacttgc agatcattca tggggccaa gcaacttgc gaaatttacca atgtatagca
1141 aaaaatgtat tagggccat ccccttccatttgc tggggccatcc
1201 tggatcacag ccccttccatttgc tggggccatcc
1261 agagctatg gcaacccaa acccagaatt agtgcgttca caaatggatg cccaaatagaa
1321 atgtccccctg atgaccccg cagaaaaata gatggcata cttttttt ttcacatgtt
1381 caagaaagat caagtgcagt atatcgttgc atgcgttca atgaatatgg atatctgt
1441 gcaacacgcat tggtaatgt gctggctgag ccacccacaa tccctcacacc tgcaaaacca
1501 ctctaccagg tcattgc caggcctgtt atactagact tggccctt tgggttct
1561 ctcccaacca tgggttgc taaaaggatg aaggatgttca ctttttttgc tggggccatcc
1621 gttttatcatg aaaaatggaaatc tttggaaatc aagatgttca ttttttttgc ttttttttgc
1681 cctgtggccc aaaaaggacag tacaggact ttttttttgc ttttttttgc ttttttttgc
1741 atggcaaaa atgaatttca cttacagccc gaatatgcag ttttttttgc ttttttttgc
1801 gttgccttgc aatgttca aaaaatggatg gaaacatgttca ctttttttgc ttttttttgc
1861 aaggacaaca gggactgccc ctttttttgc ttttttttgc ttttttttgc ttttttttgc
1921 gtagctgttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
1981 gacagcgttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2041 gtttacatg ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2101 gtttacatg ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2161 gaatatgttca atgttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2221 acacagacca ctttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2281 gcaatgttca gtttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2341 gcttcagaaatc ctttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2401 ttggagatca gtttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2461 aaatgttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2521 gtagtttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2581 gcttcagaaatc ctttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2641 gaccccttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2701 gaggttgcact gggacccatg ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2761 atttacttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
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2881 cactacacatc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
2941 agatgttca atacttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3001 ccaacactgg acttcttcac ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3061 acagatgttca ctttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3121 gatgttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3181 cgtatataatc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3241 gaagcgttca ctttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3301 gttcaatgttca ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3361 aatattgttca ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3421 gcaatgttca ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3481 ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3541 gtttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3601 gatattgttca ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3661 attttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3721 aaggaatgttca ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3781 ggagaatataca ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3841 gacaggactg ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3901 aatggccatgttca ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
3961 gacccggctgttca ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
4021 ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc
4081 ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc ttttttttgc

FIGURE 2A

BT180
BT181

'MPKKKRLSAGRVLILFICOMISALEVPLDPKLEDLVQPPTIT
QOSPKDYIIDPRENIVIQCEAKGKPPPSFSWTRNGTHFDIDKDPLVTMKGPGTGLIIN
IMSEGKAETYEGVYQCTARNERGAAVSNNIIVRPSRSPLNTKEKLEPITLQSGQSLVL
PCRPPIGLPPPPIFWMDNSFQRLPQSERVSQGLNGDLYFSNVLPEDTREDYICYARFN
HTQTIQQQKQPISVKVISVDELNDTIAANLSDEFYGAKSSRERPPFTLTPEGNASNKE
ELRGNVLSLECIAGLPTPIIYWAKEDGMLPKNRTVYKNEKTLQIIVSEADSGNYQ
CIAKNALGAIHTISVRKAAPYWIATPQNLVLSPEGDTLICRANGNPKPRISWLTN
GVPIEIAPDDPSRKIDGDTIIFSNSVQERSAVYQCNASNEYGYLLANAFVNVLAEPPR
ILTPANTLYQVIANRPALLDCAFFGSPLPTIEWFKGAKGSALHEDIYVLHENGTLIEIK
DATWIVKEIPVAQKDSTGTCTVARNKLGMKNEVHLQPEYAVVQRGSMVSFECKVKH
DHTLSLTVLWLKDNRPLPSDERFTVDKDHLVADVSDDDSGYTCVANTTLDVSASA
VLSVVAAPTPTPAPVYDVPNPPFDLELTDQDLSVQLSWTPGDDNNSPITKFIIEYEDA
MHKPGLWHHQTEVSGTQTTAQLKLSPYVNSFRVMAVNSIGKSLPSEASEQYLTKASE
PDKNPTAVEGLGSEPDNLEITWKPLNGFESNGPGLQYKVSWRQKDGDDEWTSVVVANV
SKYIVSGTPTFVVPYLIKVQALNDMGFAPEPAVVMGHSGEDLPMVAPGNVRVNVLNSTL
AEVHWDPVPLKSIRGHLQGYRIYYWKTQSSSKRNRRHIEKKILTFQGSKTHGMLPGL
PFSHYTLNVRVNVNGKGEGPASPDRVFTNTPEGVPSAPSSLKIVNPTLDSLTLEWDPPSH
PNGILTEYTLKYQPINSTHELGPLVDLKIPANKTRWTIKNINFSTRYKFYFYAQTSA
SGSQITEEÄVTTVDEAGILPPDVAGKVQAVNTRISNLAAAETYANISWEYEGPEH
VNFYVEYGVAGSKEEWRKEIVNGSRFFGLKGLMPGTAYKVRVGAVGDSGEVSSEDVF
ETGPAMASRQVDIATOGWFIGLMCAVALLLILLIVCFIRRNKGKYPVKEKEDAHAD
PEIQPMKEDDGTGEYSDAEDHKPLKKGSRTSDRTVKKEDSDDSLVVDYGEGVNGQFN
EDGSFIGQYSGKKEKEPAEGNESSEAPSPVNAMNSFV"

FIGURE 2B

HUMAN Nr-CAM	4097	TCTCATACTATGAACATATGGGTAGAGAGTATATTTTC	4134
D4-1	1	TCTCATACTATGAACATATGGGTAGAGAGTATATTTCTGCTGT	44
RAT Nr-CAM	3713	TCTCATACTATGGACATATGGGTAGAAAGAACATGTTTCGCGGT	3757
D4-1	45	ATGTTAGTATTATGAGAATAGTTACAGCAAAACATAACTCAGT	89
RAT Nr-CAM	3758	ATATGAGTATTATAAGAACAGAGCAAGAACATAACTCAGTCAGT	3802
D4-1	90	CAAAGTATATGTTAATATGAACCTGGAAATGCAAAAGTGCATACTT	134
RAT Nr-CAM	3802	CAGATGATACGTAAATATGAACCTGGGTGAAAAGG	3831
D4-1	135	TTTCATTCAAAATGGGTATTCCTGATTTCCTAAAAAA	179

FIGURE 2C

hNr-CAM
hNr-CAM1/3AS

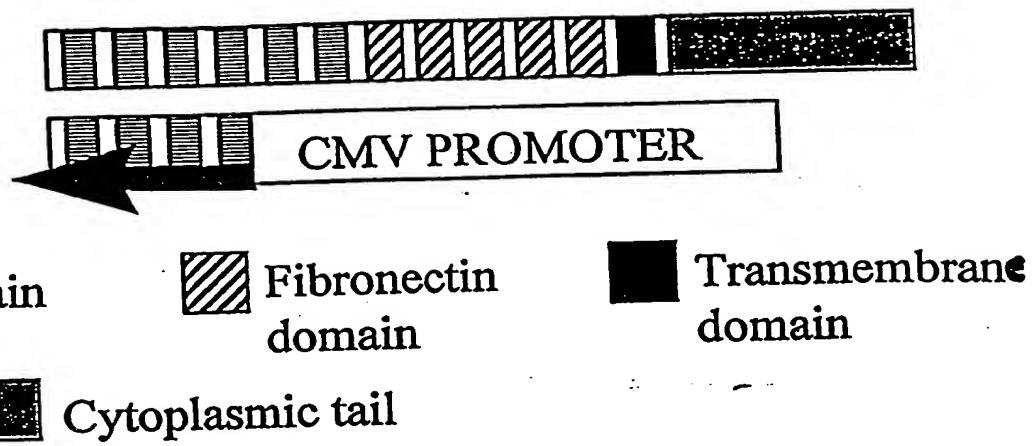
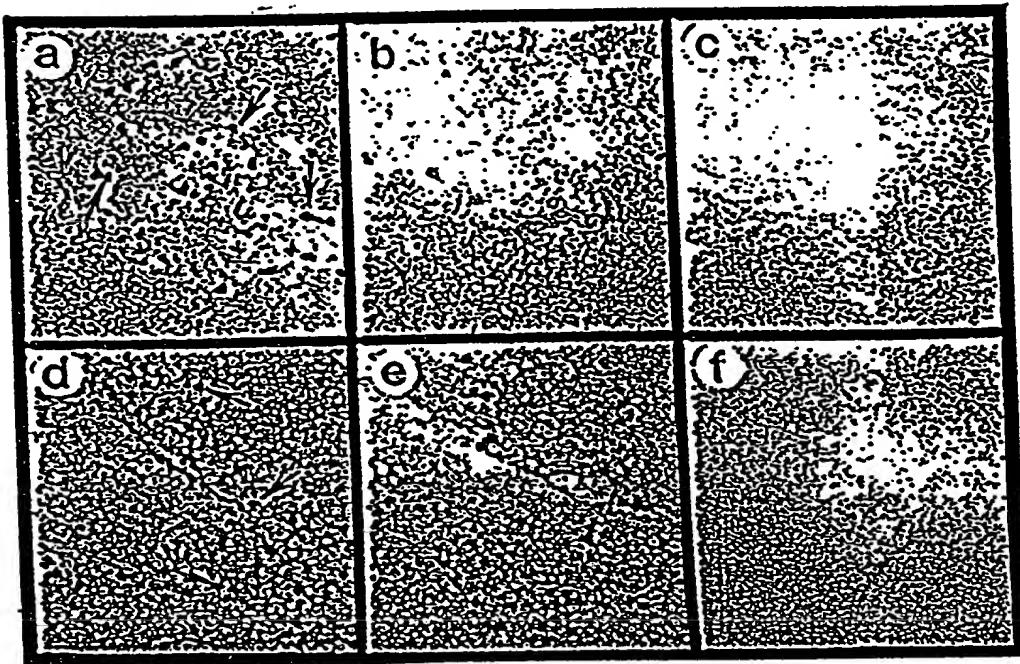
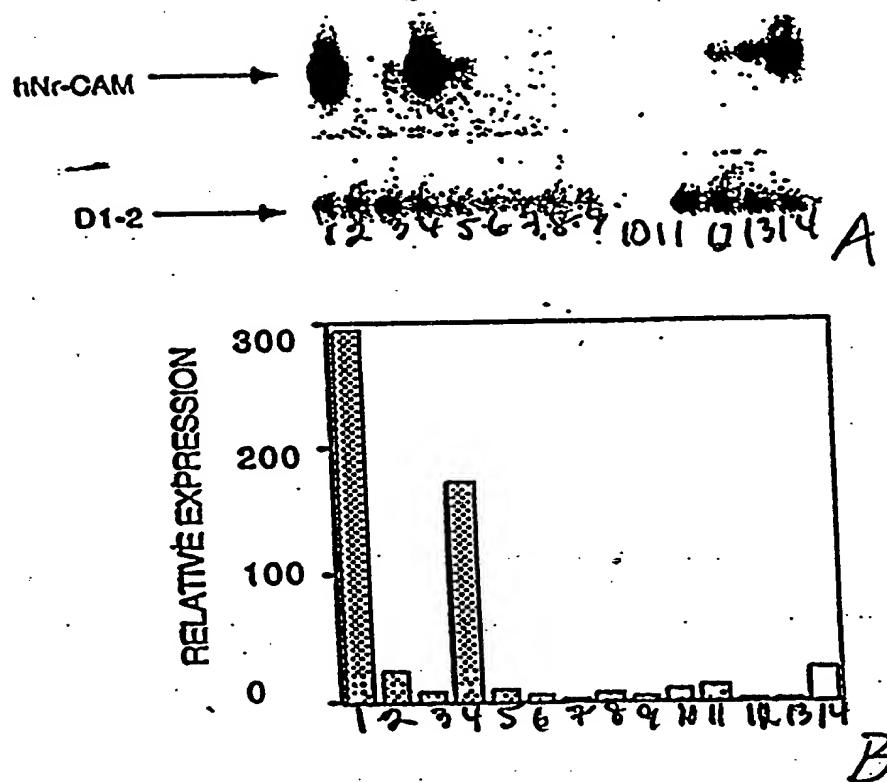


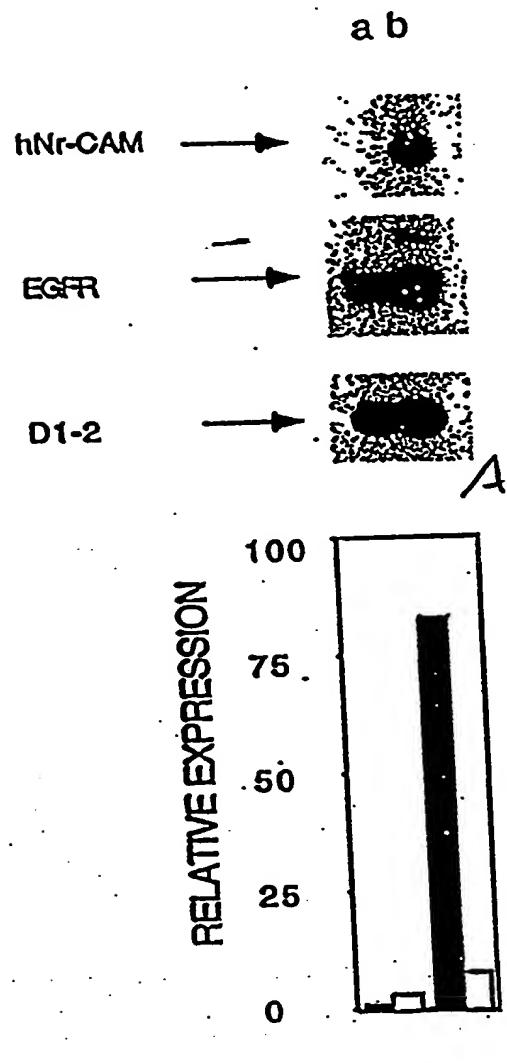
FIGURE 2D



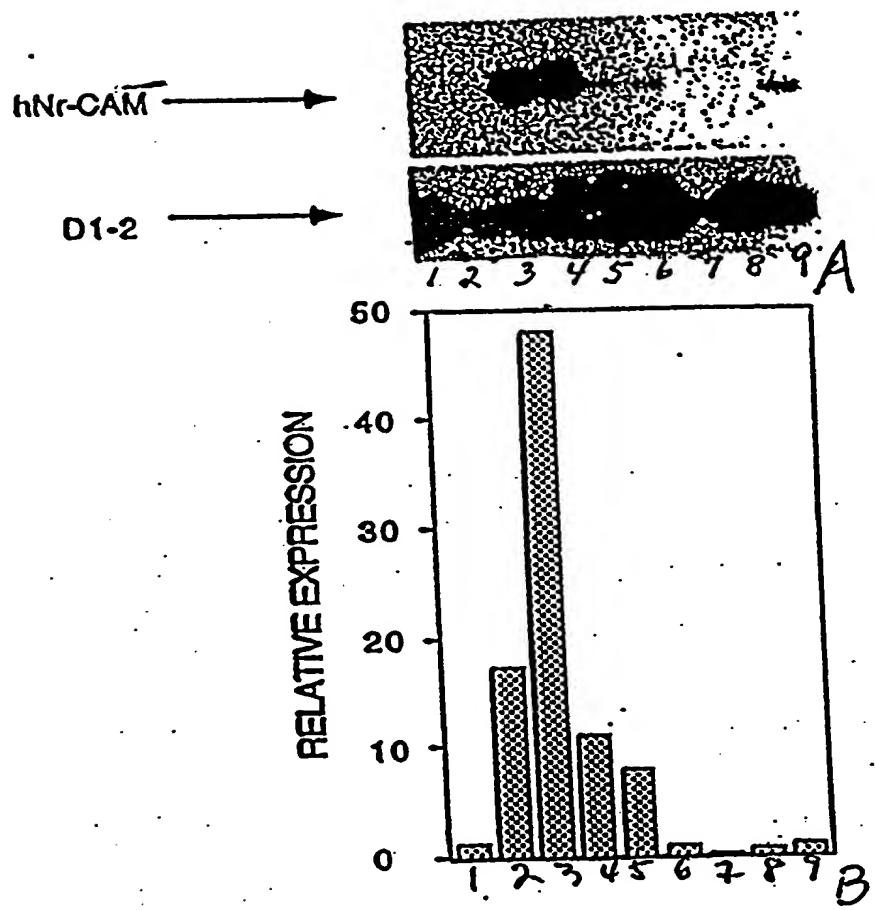
FIGURES 3A-F



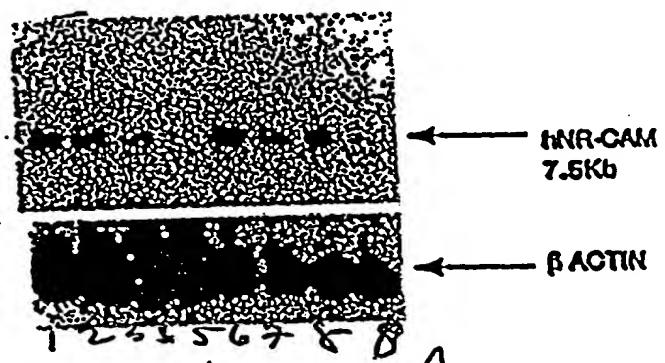
FIGURES 4A-B



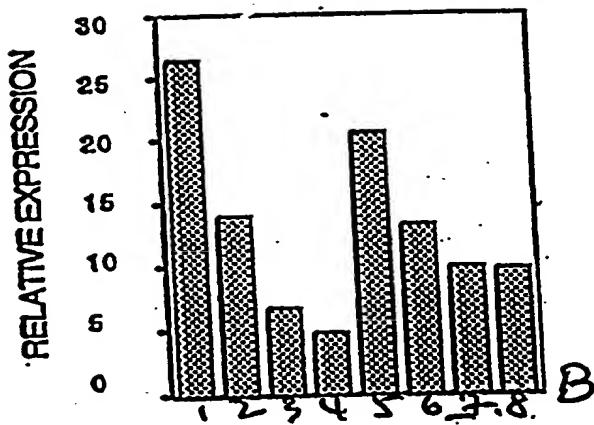
FIGURES 5A-B



FIGURES 6A-B

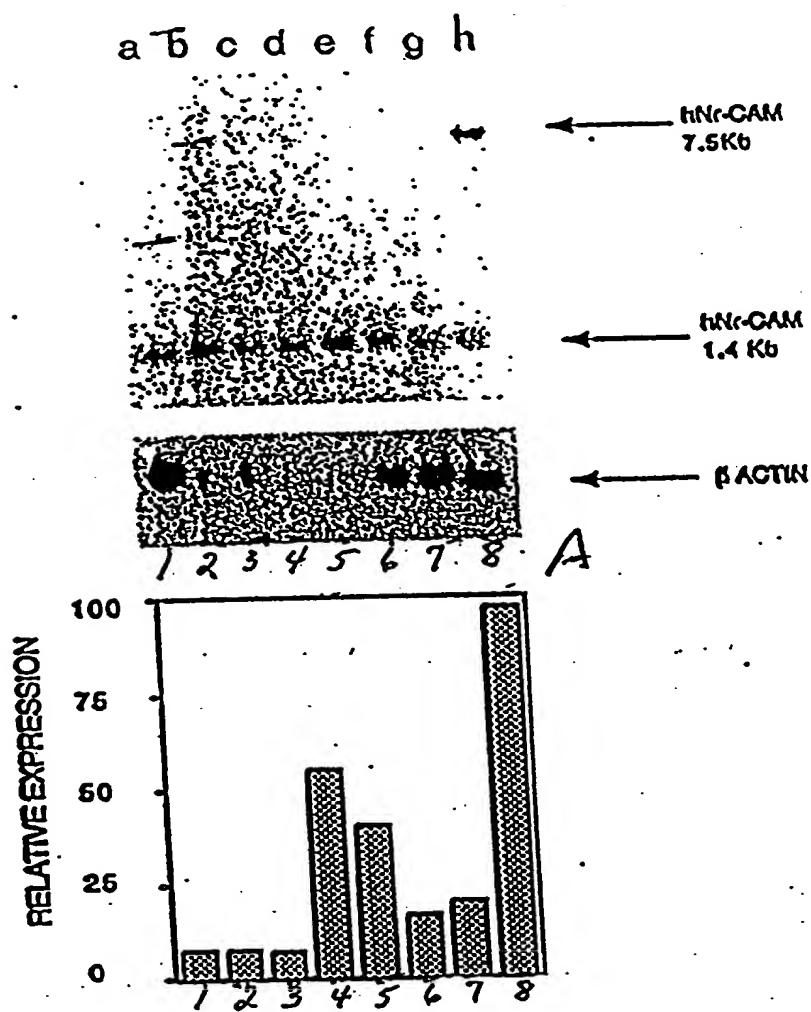


A



B

FIGURES 7A-B



FIGURES 8A-B

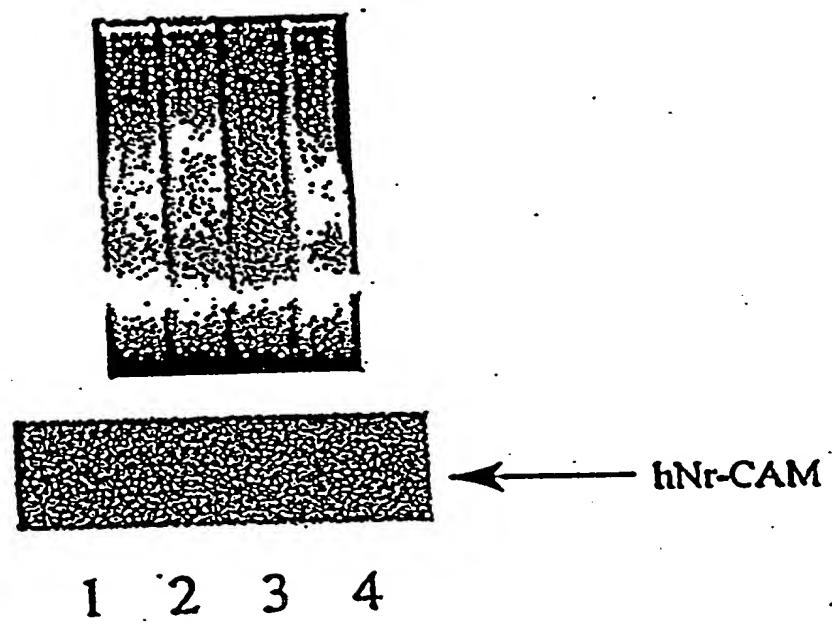
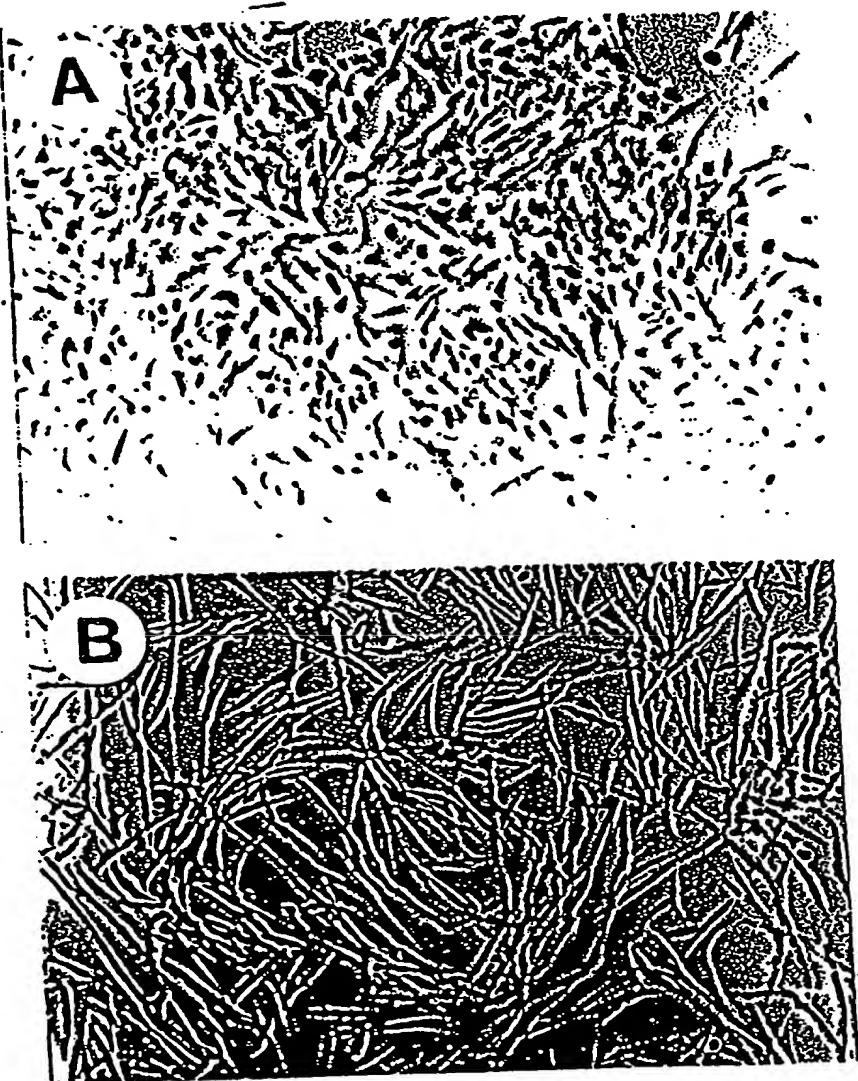


FIGURE 9



FIGURES 10A-B

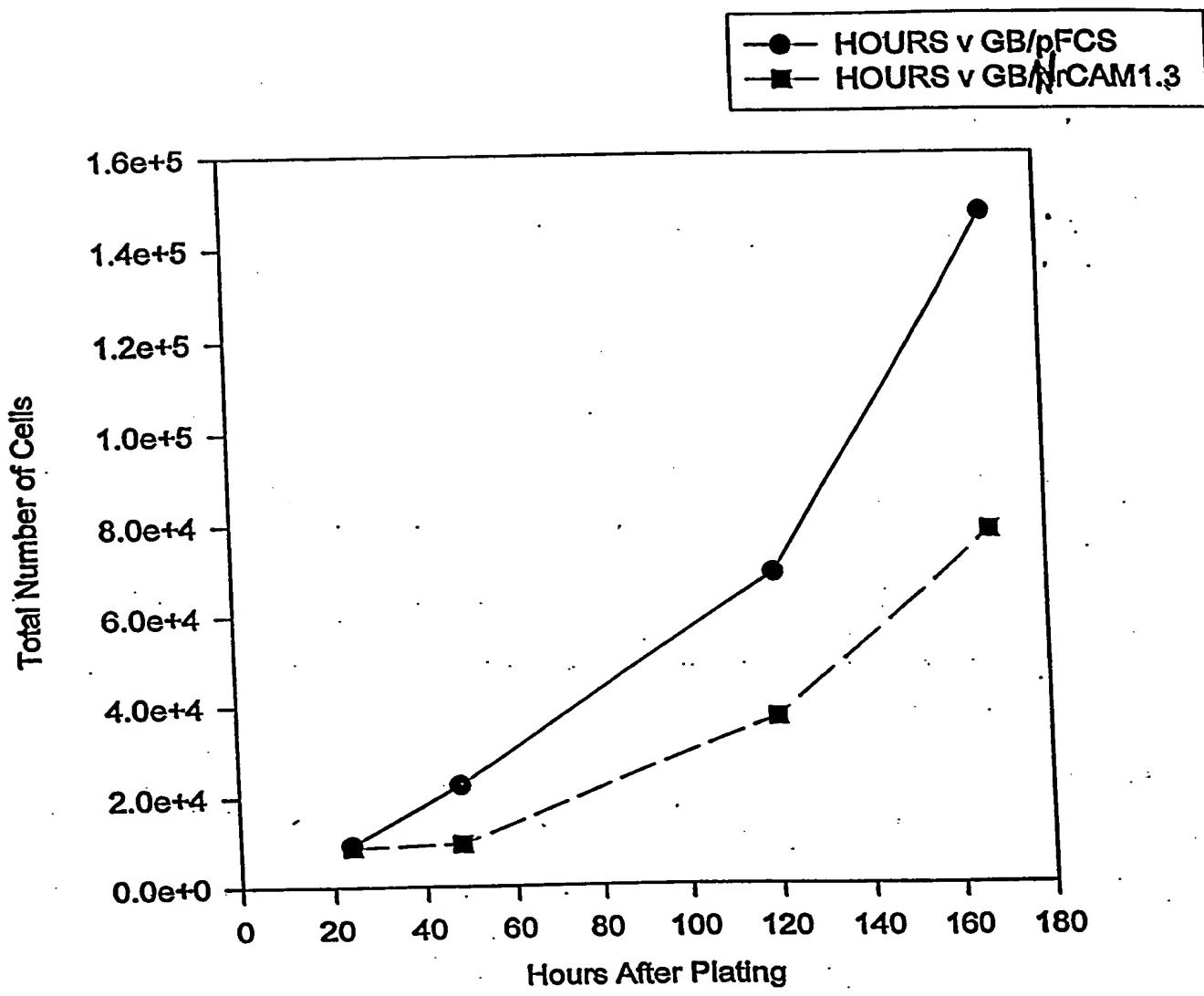


FIGURE 11

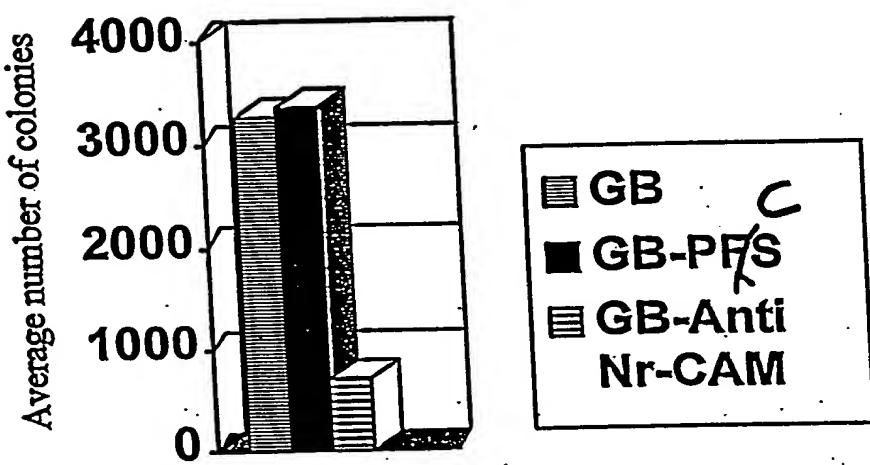


FIGURE 12

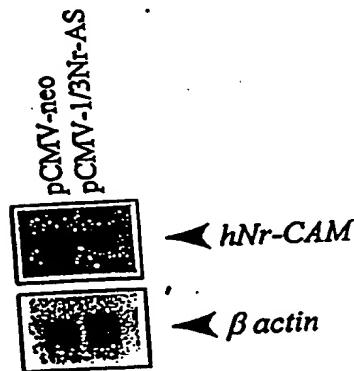


FIGURE 13

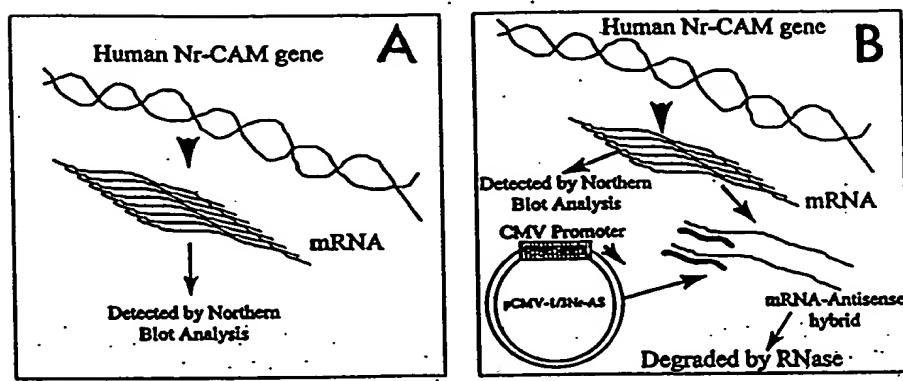


FIGURE 14A-B

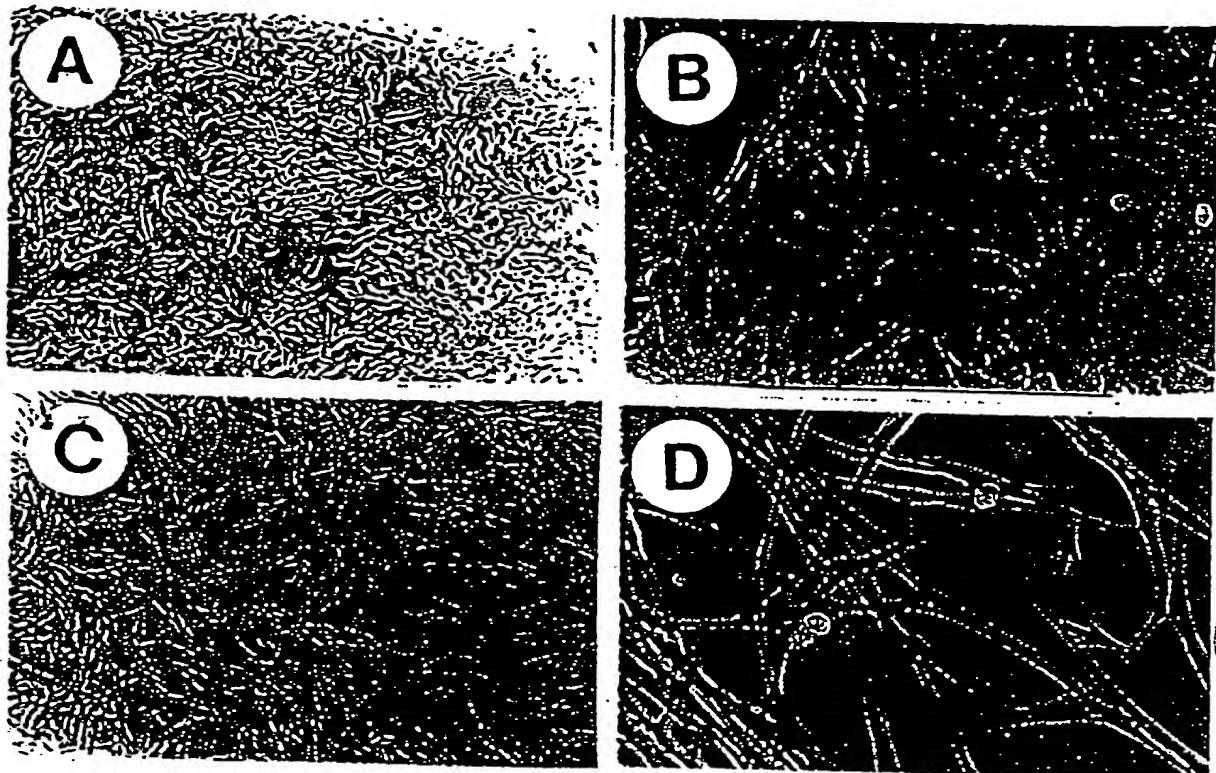


FIGURE 15A-D

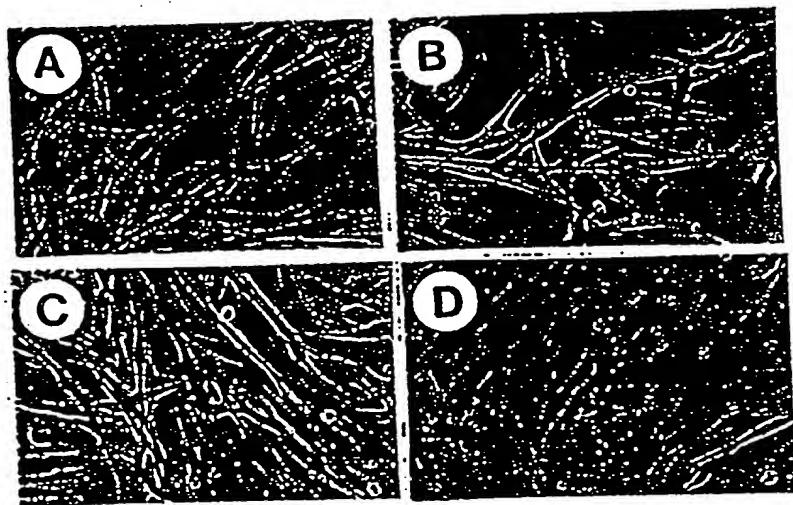


FIGURE 16A-D

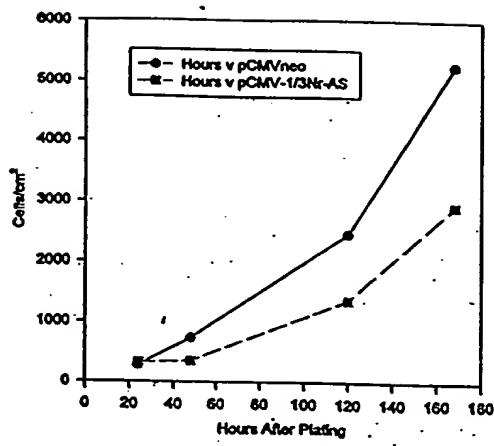


FIGURE 17

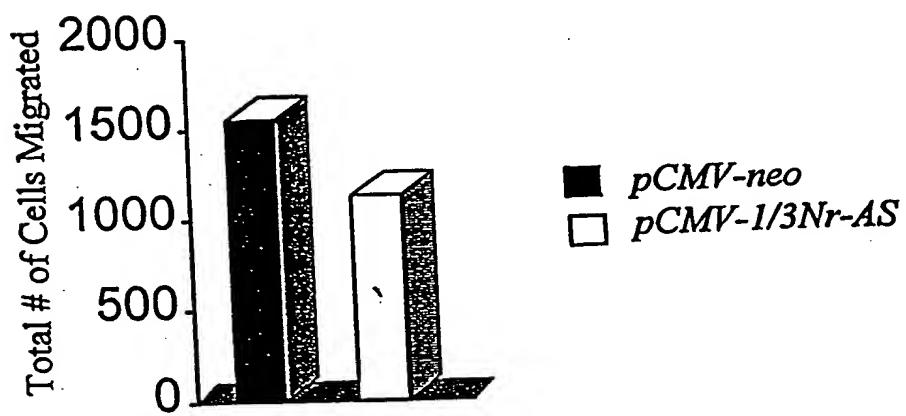


FIGURE 18

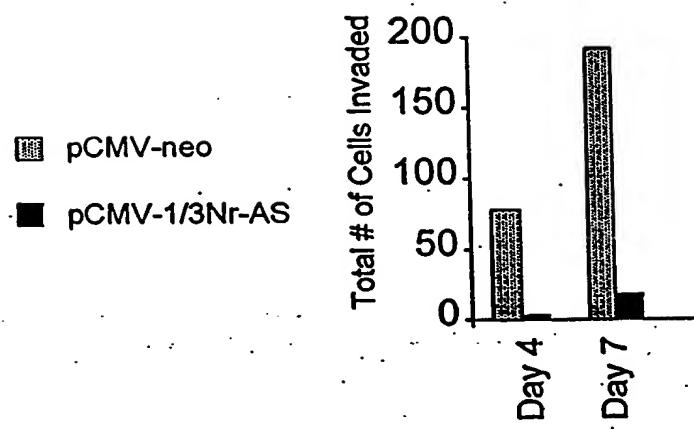


FIGURE 19

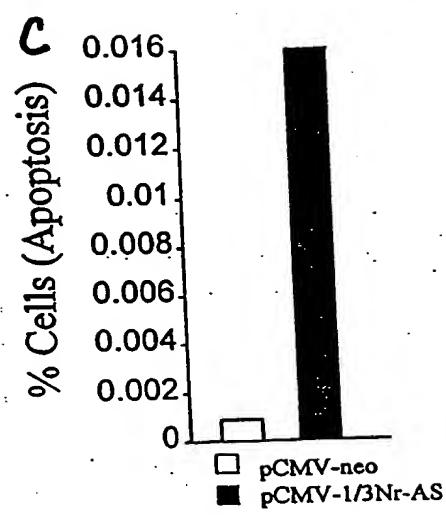
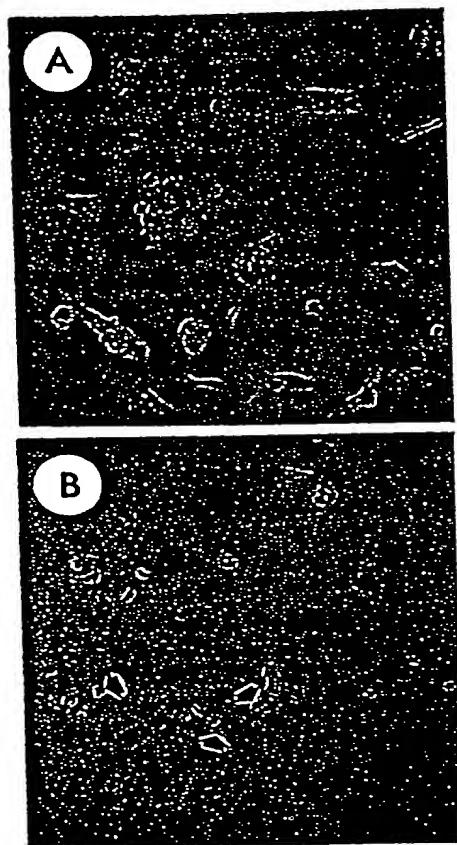


FIGURE 20A-C

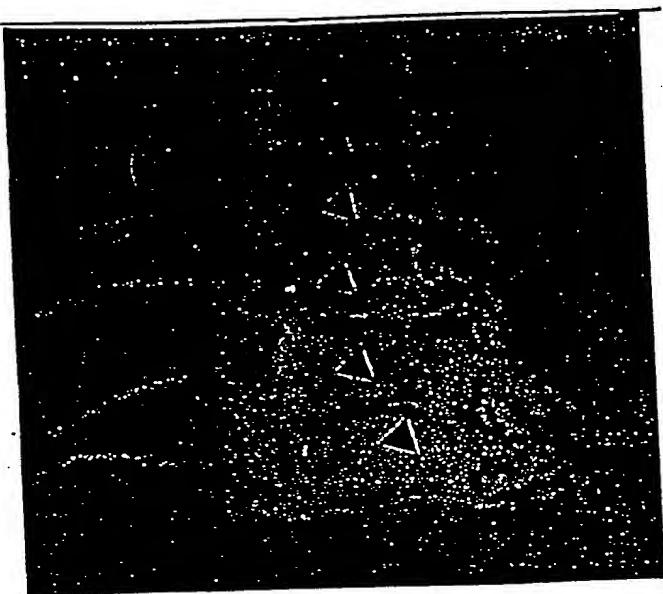


FIGURE 21

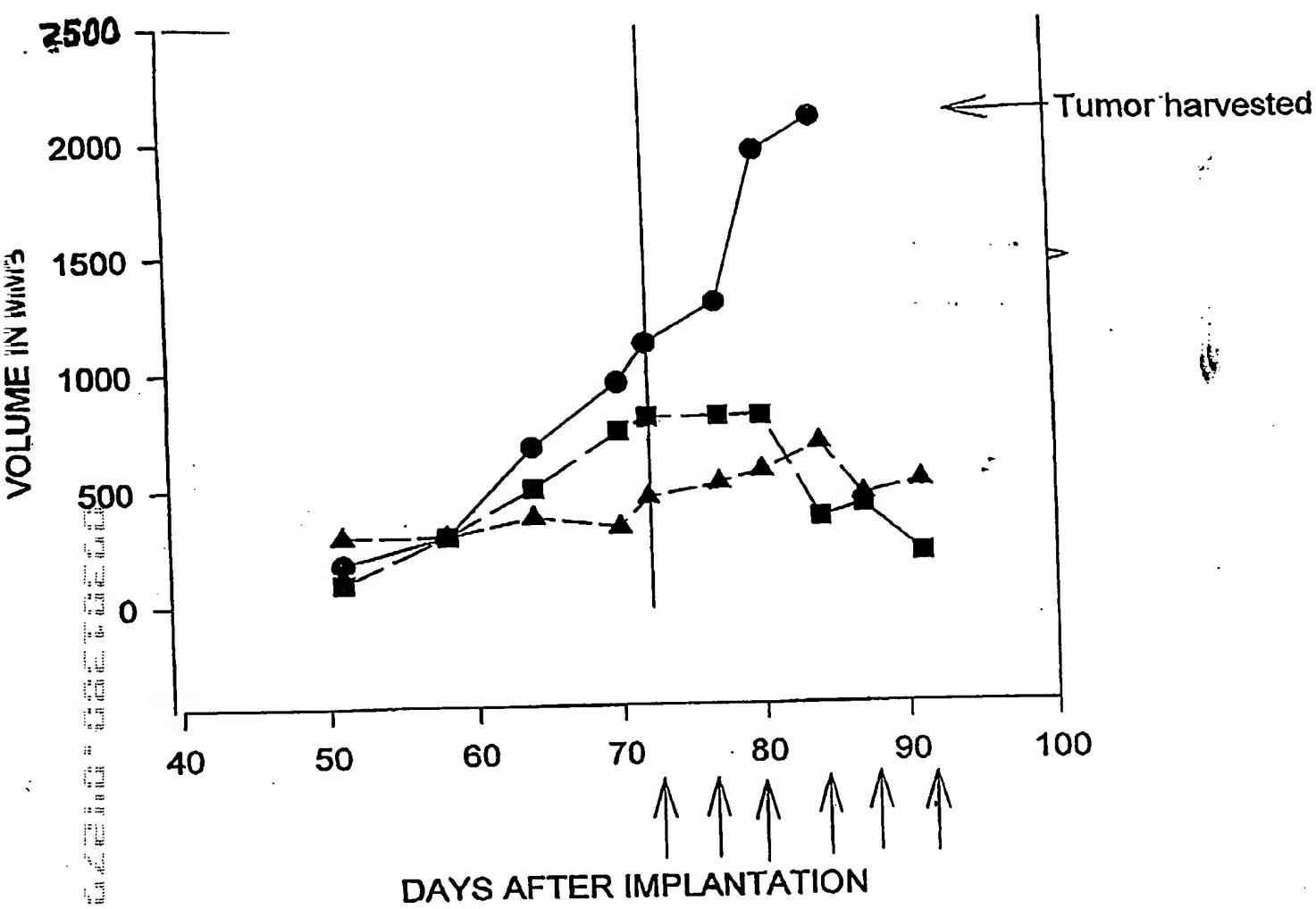


FIGURE 22A

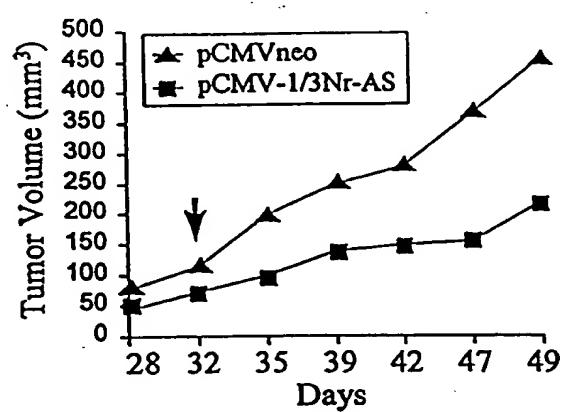
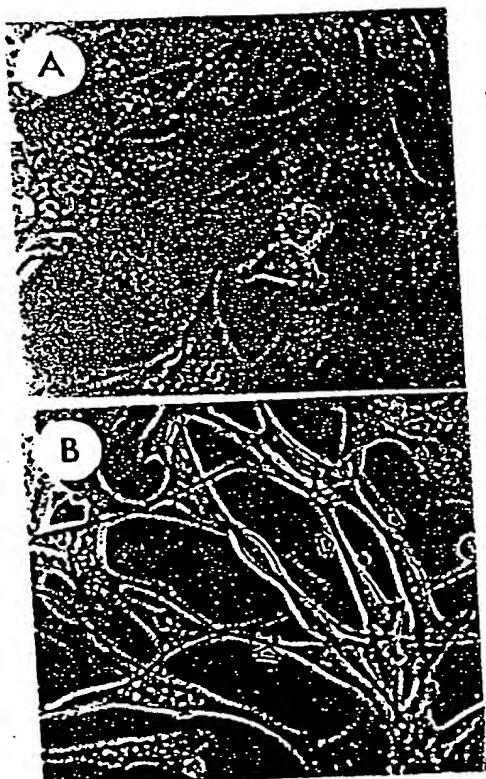


FIGURE 22B



Average # of colonies (1×10^5)

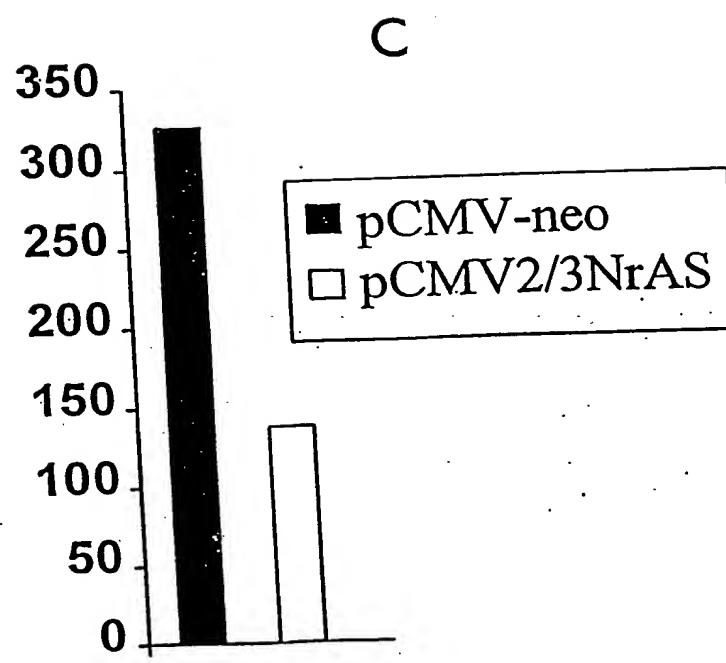


FIGURE 23A-C

Human Nr-CAM: 1 ATGCCGAGAAAAGAAGCGCTTATCTGGGGCAGAGTGCCTGATTCTCTCTGTGCCAG 60
 Rat Nr-CAM: 19 ATGCCGAGAAAAGAAGCGCTTGTCTGCAGGCCAGCGCCCTGTTCTCTCTGTGCCAG 78
 Human Nr-CAM: 61 ATGATTAGTGCACTGGAAAGTACCTCTTGATCAAAACCTCTTGAAAGACTTGGTACAGCCT 120
 Rat Nr-CAM: 79 ATGATCAGGCCCTGGATGTCCTCTTGATCAAAAGCTCCCTGATGACTTGGTACAGCCT 138
 Human Nr-CAM: 121 CCAACCATCACCCACAGTCTCCAAAAGATTACATTATTGACCCCTGGGAGAATATTGTA 180
 Rat Nr-CAM: 139 CCAACTATCACTCACAGTCACCAAAAGACTACATCATGACCCACGGAGAATATTGTA 198
 Human Nr-CAM: 181 ATCCATGTGAAAGCCAAAAGGAAACCGCCCCCAAGCTTTCTGGACCGTAAATGGGACT 240
 Rat Nr-CAM: 199 ATCCAATGTGAGGCCAAAAGGAAACCTCTCAGCTTCTGGACTCGTAACGGAACA 258
 Human Nr-CAM: 241 CATTGGACATGATAAAGACCCCTGGTCAACATGAAGCCTGGCACAGGAACGCTCAT 300
 Rat Nr-CAM: 259 CATTGGACATAGACAAAAGACCCCTGGTCACTATGAAGCCTGGTCAGGAACCCCTGTC 318
 Human Nr-CAM: 301 ATTAACATCATGAGCGAAGGGAAAGCTGAGACCTATGAAGGGACTCTACAGTGTACAGCA 360
 Rat Nr-CAM: 319 ATCAACATCATGAGTGAAGGAAAGGCGAGACCTATGAAGGGTTTACCAAGTGCAC TGCA 378
 Human Nr-CAM: 361 AGGAACGAAACGCCAGCTCGAGTTCTAATAACATTGGTGTGCGCCATCCAGATCACCA 420
 Rat Nr-CAM: 379 AGGAATGAGCGCGGAGCTGCTGTCTCAAATAACATTGGTGTGCGCCCTCTAGGTACCC 438
 Human Nr-CAM: 421 TTGTGGACCAAGAAAACCTGAAACCAATCACACTTCAAGTGGTCACTCTTAGTACTT 480
 Rat Nr-CAM: 439 TTGTGGACCAAGGAAAGACTTGAACCAATAATCTCCGAAGTGGTCACTGACTAGTACTA 498
 Human Nr-CAM: 481 CCCTGCAGACCCCCAATTGGATTACCAACCCACTATAATATTTGGATGGATAATTCTTT 540
 Rat Nr-CAM: 499 CCATGTAGGCCTCCAAATTGGATTACCAACGGCCATAATATTTGGATGGATAACTCTTT 558
 Human Nr-CAM: 541 CAAAGACTCCACAAAGTGAGAGAGTTCTCAAGGTTGAATGGGACCTTTATTTTCC 600
 Rat Nr-CAM: 559 CAAAGACTGCCACAGAGTGAGGGTTCCCAAGGACTGAATGGAGACCTTTACTCTCC 618
 Human Nr-CAM: 601 AATGTCCCTCCCAGAGGACACCCCGAGAGACTATATCTGTTATGCTAGATTAATCATACT 660
 Rat Nr-CAM: 619 AATGTCCCTCCCAGAGGACACCCCGTGGACTACATCTGCTATGCCAGATTAAATCACA 678
 Human Nr-CAM: 661 CAAACCATACAGCAGAACCTATTCTGTGAAGGTGATTTCAGTGGATGAATTGAAT 720
 Rat Nr-CAM: 679 CAAACAATTCAACAGAACACCTATTCTCTGAAGGTGATTTCAGTGGATGAATTGAAT 738
 Human Nr-CAM: 721 GACACTATAGCTGCTAATTGAGTGACACTGAGTTTATGGTCTAAATCAAGTAGAGAG 780
 Rat Nr-CAM: 739 GACACTATAGCTGCTAATTGAGTGACACTGAGTTTATGGTCTAAATCTAGTAAGAG 798
 Human Nr-CAM: 781 AGGCCACCAACATTAACTCCAGAAGGCATGCAAGTAACAAAGAGGAATTAGAGGA 840
 Rat Nr-CAM: 799 AGGCCACCAACATTCTAACTCCAGAGGGCAATGAAAGTCACAGGAGAAATTAGAGGA 858
 Human Nr-CAM: 841 AATGTGCTTCACTGGAGTGCAATTGCAAGGACTGCCAACCTTATTTACTGGCA 900
 Rat Nr-CAM: 859 AACGTGCTTCCCTGGAGTGCAATTGCAAGGACTGCCAACCTTACTCCAGTTATTACTGGATC 918
 Human Nr-CAM: 901 AAGGAAGATGGAATGCTACCCAAAACAGGACAGTTATAGAATCTTGAGAAAAACCTTG 960
 Rat Nr-CAM: 919 AAGGAGATGGAACGCTCTGTCAACCGGACGTTTATCGGAATCTTAAGAAAACCTTG 978
 Human Nr-CAM: 961 CAGATCATCATGTTCAAGCAGACTCTGGAAATTACCAATGTATAGCAAAAATGCA 1020
 Rat Nr-CAM: 979 CAGATCATCATGTCCTGAAGCAGACTCTGGAAATTATCAGTGCATAGCAAAAACGCA 1038
 Human Nr-CAM: 1021 TTAGGAGCCATCCACCATACCAATTCTGTTAGAGTTAAAGCGCTCCATACTGGATCACA 1080
 Rat Nr-CAM: 1039 TTGGGAGCGCTCCATACACGATTCTGTCACAGTTAAAGCGCTCCCTACTGGATTGTT 1098
 Human Nr-CAM: 1081 GCCCCCTCAAAATCTTGCTGTCCCCAGGGAGAGGATGGACCTTGATCTGCAGAGCTAAAT 1140
 Rat Nr-CAM: 1099 GCACCTCACACCTGCTTCCOCAGGGAGAATGGACCCCTCATCTGCAGAGCTAAC 1158
 Human Nr-CAM: 1141 GGCAACCCAAAACCCAGAAATTAGCTGGTTAACAAATGGAGTCCCAATAGAAATTGCCCT 1200
 Rat Nr-CAM: 1159 GGCAACCCAAAACCCAGAAATTAGCTGGTTAACAAATGGAGTCCCAAGTAGAAATTGCTCTC 1218
 Human Nr-CAM: 1201 GATGACCCACAGCGAAAAATAGATGGCGATACCCATTTTCAAAATGTTCAAGAARGA 1260
 Rat Nr-CAM: 1219 GATGACCCACAGCGAAAAATGATGGTGAACCCATTATGTTCAAAATGTTCAAGAARGC 1278
 Human Nr-CAM: 1261 TCAAGTGCAGTATATCAGTGCATGCTCTAAATGAAATATGGATAATTACTGGAAAOGCA 1320
 Rat Nr-CAM: 1279 TCAAGTGCAGGTTTATCAGTGCATGCTCTAAACAAATATGGATAATTACTGGAAAATGCA 1338
 Human Nr-CAM: 1321 TTGTAATGTCGGCTGAGGCCACCAAGAACTCTCACACCTGCAACACACA 1371
 Rat Nr-CAM: 1339 TTGTAATGTCGGCTGAGGCCACCACTGGATTCTACCTCAGCAACACA 1389

FIGURE

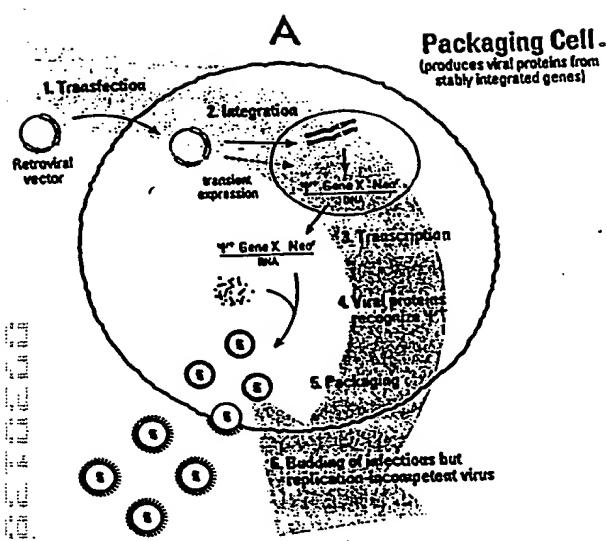


FIGURE 25A

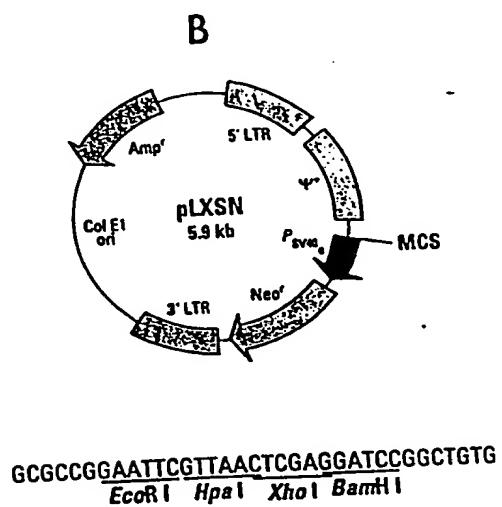


FIGURE 25B

pCMV-1/3Nr-AS

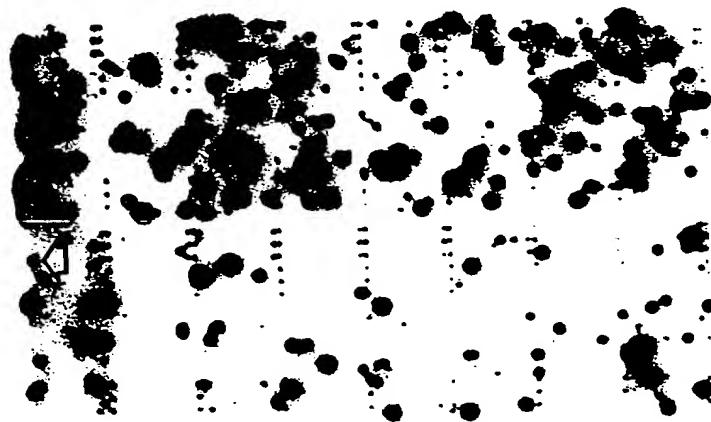


FIGURE 26A

pCMV-neo



FIGURE 26B